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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. 09/486,823 03/03/00 SHIMADA J 506.38266X00 **EXAMINER** 020457 HM12/0926 ANTONELLI TERRY STOUT AND KRAUS SPIVACK, P PAPER NUMBER SUITE 1800 **ART UNIT** 1300 NORTH SEVENTEENTH STREET ARLINGTON VA 22209 1614 DATE MAILED: 09/26/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trad marks

Office Action Summary

Application No. 09/486,823

Applicant(s)

Shimada et al.

Examiner

Phyllis Spivack

Art Unit 1614

		<u> </u>	
The Mi	AILING DATE of this communication appear	s on the cover sheet with the corres	pondence address
Period for Reply	STATISTORY REDION FOR REDIVIS OF	T TO EVOIDE 2 MONTH	10) 5004
THE MAILING D	STATUTORY PERIOD FOR REPLY IS SE DATE OF THIS COMMUNICATION.		
after SIX (6) f	ne may be available under the provisions of 37 of MONTHS from the mailing date of this commun reply specified above is less than thirty (30) day	ication.	
be considered	timely. reply is specified above, the maximum statutory		•
communicatio	n.		_
- Any reply receive	vithin the set or extended period for reply will, bed by the Office later than three months after the term adjustment. See 37 CFR 1.704(b).	by statute, cause the application to become mailing date of this communication, e	ome ABANDONED (35 U.S.C. § 133). Even if timely filed, may reduce any
Status			
1) 💢 Responsiv	ve to communication(s) filed on <u>Aug 28,</u>	2001	•
2a) This action	on is FINAL . 2b) 💢 This ac	ction is non-final.	
3) Since this closed in	s application is in condition for allowance accordance with the practice under <i>Ex p</i>	except for formal matters, prosec arte Quayle, 1935 C.D. 11; 453 C	ution as to the merits is J.G. 213.
Disposition of Cla	ims		
4) 💢 Claim(s) <u>(</u>	5-17	is/are	pending in the application.
4a) Of the	above, claim(s)	is/are	withdrawn from consideration.
5)		i	s/are allowed.
6) 💢 Claim(s) <u>6</u>	5-17	i	s/are rejected.
7) Claim(s) _		i	s/are objected to.
8) Claims		are subject to restrict	ion and/or election requirement.
Application Papers	3		
9) The specif	fication is objected to by the Examiner.		
10)☐ The draw	ing(s) filed on is/are	e objected to by the Examiner.	
11) The propo	sed drawing correction filed on	is: a) \square approved b	o)□ disapproved.
12) The oath	or declaration is objected to by the Exam	iner.	
Priority under 35 l	J.S.C. § 119		
13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).			
a) 🗌 All b) 🗀	Some* c)☐ None of:		
1. Certified copies of the priority documents have been received.			
2. Certified copies of the priority documents have been received in Application No			
3. 🗌 Copi	es of the certified copies of the priority d application from the International Bure	locuments have been received in teau (PCT Rule 17.2(a)).	
	ched detailed Office action for a list of th		
14)□ Acknowle	dgement is made of a claim for domestic	priority under 35 U.S.C. § 119(e)).
Attachment(s)			
(5) X Notice of Reference	es Cited (PTO-892)	18) Interview Summary (PTO-413) Paper No.	p(s)
	rson's Patent Drawing Review (PTO-948)	19) Notice of Informal Patent Application (P	TO-152)
7) Information Disclo	sure Statement(s) (PTO-1449) Paper No(s).	20) Other:	

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Applicants' Amendment filed August 28, 2001, Paper No. 11, is acknowledged and has been entered. Claims 6-17 remain under consideration wherein the R_4 moiety is presently limited to -(CH₂)- R_5 , and R_5 is selected from furyl, thienyl, pyrrolyl, pyranyl, thiopyranyl, pyridyl, thiazolyl, imidazolyl, pyrimidyl, triazinyl, indolyl, quinolyl, purinyl and benzothiazolyl, or,

-C=C-Z,

$$Y_1$$
 Y_2
and Z is aryl or the group

The finality set forth in the last Office Action is withdrawn.

Subsequent to the amendments to claims 6, 10 and 14, the rejections of record under 35 U.S.C. 102(b) as being anticipated by Badger et al., U.S. Patent No. 4,772,607, and as being anticipated by Kamoun et al., U.S. Patent No.5,173,491, are no longer proper and are withdrawn.

In the first Office Action the claims were rejected under 35 U.S.C. 112, first paragraph, for lacking enablement for compounds of formula I wherein any heterocyclic group is possible for the R_5 group. In view of the diverse functionalities among the 14 heterocyclic groups presently claimed for R_5 and the specificity of the adenosine A_2 receptor, the specification fails to provide support commensurate in scope with the claims. The rejection of record under 35 U.S.C. 112, first paragraph, is maintained and is presently extended to include all of the claims now under consideration.

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 6, 7, 10, 11, 14 and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Kuefner-Muehl et al., DE 3843117.

Kuefner- Muehl teaches the administration of xanthines as adenosine receptor antagonists to treat aging-related illness such as the neurodegeneration seen in Alzheimer's disease. See, in particular, page 4, lines 42-60.

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 6-17 are rejected under 35 U.S.C. 102(a) as being anticipated by Miwa et al., JP 09040652 (abstract).

Miwa teaches the administration of compounds of instant formula I wherein R_4 is the formula -C=C-Z and Z is substituted phenyl for use in the treatment of degenerative disorders X_1 X_2

such as dementia and Parkinson's disease. Alzheimer's disease is characterized by neurodegeneration of the brain resulting in progressive loss of mental capacity.

No claim is allowed.

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Baraldi et al., <u>Current Medicinal Chemistry</u> (abstract) is cited to show further the state of the art.

Any inquiry concerning this communication should be directed to Phyllis Spivack at telephone number (703) 308-4703.

September 24, 2001

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